

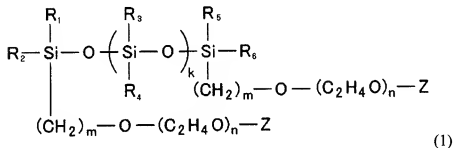
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims 1, 6, 10 and 14, and cancel claim 2.

- (Currently Amended) A non-aqueous electrolyte comprising:
 a cyclic carbonate;
 a lithium salt; and
 a polyether-modified silicon oil represented by formula 1 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain, the polyether-modified silicon oil having a viscosity of less than 10cSt at 25°C:



where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

R₁ to R₇ are independently or identically, selected from hydrogen or C₁ to C₅ alkyls; and

Z is CH₃ or C₂H₅.

- (Canceled).

3. (Original) The electrolyte of claim 1, wherein the polyether-modified silicon oil has a flash point of 120°C or more.

4. (Original) The electrolyte of claim 1 further comprising a chain carbonate.

5. (Original) The electrolyte of claim 1 further comprising a fluorinated cyclic carbonate.

6. (Currently Amended) A rechargeable lithium battery comprising:

a positive electrode;

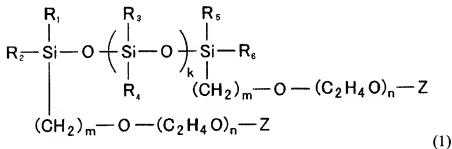
a negative electrode; and

a non-aqueous electrolyte comprising:

_____ a polyether-modified silicon oil represented by formula 1 in which a polyether chain is bonded to a terminal end of a linear polysiloxane chain, the polyether-modified silicon oil having a viscosity of less than 10cSt at 25°C,

_____ a cyclic carbonate, and

_____ a lithium salt:



where k is an integer from 0 to 10;

m is a natural number from 2 to 4;

n is a natural number from 1 to 4;

R₁ to R₇ are independently or identically, selected from hydrogen or C₁ to C₅ alkyls; and
Z is CH₃ or C₂H₅.

7. (Original) The rechargeable lithium battery of claim 6, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, fluorinated cyclic carbonates and mixtures thereof.

8. (Original) The rechargeable lithium battery of claim 6, wherein the non-aqueous electrolyte further comprises a chain carbonate.

9. (Original) The rechargeable lithium battery claim 6, wherein the non-aqueous electrolyte further comprises a fluorinated cyclic carbonate.

10. (Currently Amended) An electrolyte for a rechargeable lithium battery comprising:

a polyether-modified silicon oil having a viscosity of less than 10cSt at 25°C, a cyclic carbonate, and a lithium salt, wherein the polyether-modified silicon oil includes end silicons, wherein each end Si atom includes a terminal bond to a polyether group.

11. (Original) The electrolyte of claim 10, wherein the polyether-modified silicon oil has a flash point of 120°C or more.

12. (Original) The electrolyte of claim 10 further comprising a chain carbonate.

13. (Original) The electrolyte of claim 10 further comprising a fluorinated cyclic carbonate.

14. (Currently Amended) A rechargeable lithium battery comprising:

a positive electrode;
a negative electrode; and
an electrolyte comprising a polyether-modified silicon oil having a viscosity of less than 10cSt at 25°C, a cyclic carbonate, and a lithium salt wherein the polyether-modified silicon oil includes end silicons with terminal bonds consisting of Si-C or Si-H bonds and wherein each end Si atom includes a terminal bond to a polyether group.

15. (Original) The rechargeable lithium battery of claim 14, wherein the negative electrode comprises a thin layer comprising a compound selected from the group consisting of polyacrylate compounds, aziridine compounds, and fluorinated cyclic carbonates, or a combination thereof on a surface thereof.

16. (Original) The rechargeable lithium battery of claim 14, wherein the electrolyte further comprises a chain carbonate.

17. (Original) The rechargeable lithium battery claim 14, wherein the electrolyte further comprises a fluorinated cyclic carbonate.